



## SEQUENCE LISTING

<110> Krolewski, Andrzej S.  
Pezzolesi, Marcus G.  
Nagase, Terumasa

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<141> 2003-10-28

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Leu Leu Gly Gly Pro Arg Ala Thr Ser Ile Leu Ser Tyr Leu Ser		365
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Asp Ser Asp Leu Arg Gly Pro Ser Leu Arg Ser Gln Ser Gln Glu Leu		380
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Pro Glu Met Asp Ser Phe Ser Ser Glu Asp Pro Arg Asp Thr Glu Thr		395
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Ser Thr Ser Ala Ser Thr Ser Asp Val Gly Phe Leu Pro Leu Thr Phe		415
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Gly Pro His Ala Ser Ile Glu Glu Glu Ala Arg Glu Asp Pro Leu Pro		430
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Pro Gly Leu Leu Pro Glu Met Ala His Leu Ser Gly Gly Pro Phe Ala		445
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Glu Gln Pro Gly Trp Arg Asn Leu Gly Gly Glu Ser Pro Ser Leu Pro		460
	465	470
Gln Gly Ser Leu Phe His Ser Gly Thr Ala Ser Ser Ser Gln Asn Gly		475
	485	490
His Glu Glu Gly Ala Thr Gly Asp Arg Glu Asp Gly Pro Gly Val Ala		495
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		510

Leu Glu Gly Pro Leu Gln Glu Val Leu Glu Leu Leu Arg Pro Thr Asp  
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<211> 32

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&lt;220&gt;

&lt;223&gt; Exemplary motif

&lt;221&gt; VARIANT

&lt;222&gt; 2-8, 10-15, 17-22, 24-31

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 7

Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu
1				5				10						15	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu
			20					25						30	

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&lt;400&gt; 8

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tgccagccgc	acacctgctt	tctgtccctt	aaagctcatt	cccaccagg	acatctgcac	180
tcgcagctgc	ctccgcgcgc	tgaaggcttc	ccggcccacc	cccatctgca	cacgcgcaga	240
tccacttctt	ctgtcccttc	ctgcctccac	tccccatgcc	cctgtctcgt	caggctctcc	300
caggagacca	tgggtgccct	ccccacccc	cagttcagtt	ccctcacagc	actgccacca	360
gctggatctg	tctcaattat	cactggctta	ttgtttgctg	c		401

<210> 29  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 29						
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acctatgcag	ggcctgagaa	gctgctcaaa	ctgcttgatc	ccccagcca	agccaggcaa	120
gagaataagg	acggagtagg	gagggattcc	caaaggtgag	tagttgagac	gtactccgga	180
gccagcctgg	gcactggagc	cggaaagggc	ttcccggccc	cctccctctg	caccttccca	240
tcagaagcct	tctgggcccgt	tcctggagct	tcaccccagt	cactccactt	caaggtcaga	300
gagaaggaca	attgctaagc	agttcctccc	gatgcaaagc	tcaaaacaag	ccccagggtcc	360
tcctgctcag	tgtgagagag	aggacgacga	aggagggaaa	c		401

<210> 30  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
gtttctgtct	gctggttggt	aaacacgtat	gagctcctca	ctgctgttac	ccctatcagc	60
acctatgcag	ggcctgagaa	gctgctcaaa	ctgcttgatc	ccccagcca	agccaggcaa	120
gagaataagg	acggagtagg	gagggattcc	caaaggtgag	tagttgagac	gtactccgga	180
gccagcctgg	gcactggagc	tggaaggggc	ttcccggccc	cctccctctg	caccttccca	240
tcagaagcct	tctgggcccgt	tcctggagct	tcaccccagt	cactccactt	caaggtcaga	300
gagaaggaca	attgctaagc	agttcctccc	gatgcaaagc	tcaaaacaag	ccccagggtcc	360

tcctgctcag tgtgagagag aggacgacga aggagggaaa c 401

<210> 31

<211> 401

<212> DNA

<213> Homo sapiens

<400> 31

ccaaggtgtg	gctggaggaa	gcagagtcta	ctcccgctaa	gtctgtccgc	tcaactgctgg	60
ccaaagctgc	cctgcgtctc	ctccccaccg	ccagccagag	ggaacctgca	atttcacctc	120
atntagaggt	aaaacatcta	aatttaacgt	tatgggcttt	tggggctggg	tggcttttat	180
gcctgagtc	ctcaacttagg	gtcctttttt	atccactcaa	atgccagcta	gggcttagtt	240
tgtttatagg	agtttccaaa	atagctcctt	tggtttcgca	tgaaaggaaa	tggcaaaata	300
gccaggaag	aggaatgtga	gtttacacag	aagacagaca	ggcgcccgag	gaggcttctc	360
tgggaaccag	ttcgctgta	ccagaggggg	cccgagaaag	t		401

<210> 32

<211> 401

<212> DNA

<213> Homo sapiens

<400> 32

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ccaaagctgc	cctgcgtctc	ctccccaccg	ccagccagag	ggaacctgca	atttcacctc	120
atntagaggt	aaaacatcta	aatttaacgt	tatgggcttt	tggggctggg	tggcttttat	180
gcctgagtc	ctcaacttagg	actccttttt	atccactcaa	atgccagcta	gggcttagtt	240
tgtttatagg	agtttccaaa	atagctcctt	tggtttcgca	tgaaaggaaa	tggcaaaata	300
gccaggaag	aggaatgtga	gtttacacag	aagacagaca	ggcgcccgag	gaggcttctc	360
tgggaaccag	ttcgctgta	ccagaggggg	cccgagaaag	t		401

<210> 33

<211> 401

<212> DNA

<213> Homo sapiens

<400> 33

tacgttagaa	ggaccctacg	ttagaagggt	gaggcgctag	ggccatagcc	taagggcact	60
gggaaccctg	tgggcatgcg	cagttcaagc	ccatccccgc	tccctccagc	tgtgtgccat	120
cctgccaca	cctgaccatt	tgcctaacct	agatccttcc	tgtcttgcat	ttcctcaagc	180
atccggagcc	caggactgct	gagtcaacct	tctggaatgc	ccacaactcc	ccacaggcca	240
gcccgccttg	ggactccgc	acagccacgt	gagccgggtg	agccgggtct	gtttgctagt	300
ggaggctggt	aacagcacgg	gaagtggta	agggttcaac	aagagatgag	ccatctggtc	360
ctccagaggt	aaacaattta	caagagacac	atcaagccgg	c		401

<210> 34

<211> 401

<212> DNA

<213> Homo sapiens

<400> 34

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gggaaccctg	tgggcatgcg	cagttcaagc	ccatccccgc	tccctccagc	tgtgtgccat	120
cctgccaca	cctgaccatt	tgcctaacct	agatccttcc	tgtcttgcat	ttcctcaagc	180
atccggagcc	caggactgct	cagtcaacct	tctggaatgc	ccacaactcc	ccacaggcca	240
gcccgccttg	ggactccgc	acagccacgt	gagccgggtg	agccgggtct	gtttgctagt	300
ggaggctggt	aacagcacgg	gaagtggta	agggttcaac	aagagatgag	ccatctggtc	360
ctccagaggt	aaacaattta	caagagacac	atcaagccgg	c		401

<210> 35  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

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 gcttggttct ttccctttaca tccattagtg agggtcaggc tcttttgta tgttttttt 120  
 tcttttgat aacttaatta ttccagggtt cggggtgggc gctcgccct tgcccagtca 180  
 cactggtgtg tgtgcgactc ctacaaagtt aacagtttct ccagggtcaag ggggtgggatc 240  
 caggcttggt gatgtgcaca atttcttttg tccacttgac acatctctgc gtcctgattc 300  
 tgctcagggg cggacccaag aacaaagcag ccatttaccg cctccggagg ggaggccagc 360  
 cctgtggcac atccagggcc ttggaacacc tagagacaga t 401

<210> 36  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
 ggggtttcccc caagcccctt tccccctttg cgcctcccac ttctcctaga ttgagagtca 60  
 gcttggttct ttccctttaca tccattagtg agggtcaggc tcttttgta tgttttttt 120  
 tcttttgat aacttaatta ttccagggtt cggggtgggc gctcgccct tgcccagtca 180  
 cactggtgtg tgtgcgactc ttacaaagtt aacagtttct ccagggtcaag ggggtgggatc 240  
 caggcttggt gatgtgcaca atttcttttg tccacttgac acatctctgc gtcctgattc 300  
 tgctcagggg cggacccaag aacaaagcag ccatttaccg cctccggagg ggaggccagc 360  
 cctgtggcac atccagggcc ttggaacacc tagagacaga t 401

<210> 37  
 <211> 1068  
 <212> PRT  
 <213> Homo sapiens

<400> 37  
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 20 25 30  
 Ser Arg Cys Asn Ser Phe Ile Glu Asn Ser Ser Ala Leu Lys Lys Pro  
 35 40 45  
 Gln Ala Lys Leu Lys Lys Met His Asn Leu Gly His Lys Asn Asn Asn  
 50 55 60  
 Pro Pro Lys Glu Pro Gln Pro Lys Arg Val Glu Glu Val Tyr Arg Ala  
 65 70 75 80  
 Leu Lys Asn Gly Leu Asp Glu Tyr Leu Glu Val His Gln Thr Glu Leu  
 85 90 95  
 Asp Lys Leu Thr Ala Gln Leu Lys Asp Met Lys Arg Asn Ser Arg Leu  
 100 105 110  
 Gly Val Leu Tyr Asp Leu Asp Lys Gln Ile Lys Thr Ile Glu Arg Tyr  
 115 120 125  
 Met Arg Arg Leu Glu Phe His Ile Ser Lys Val Asp Glu Leu Tyr Glu  
 130 135 140  
 Ala Tyr Cys Ile Gln Arg Arg Leu Gln Asp Gly Ala Ser Lys Met Lys  
 145 150 155 160  
 Gln Ala Phe Ala Thr Ser Pro Ala Ser Lys Ala Ala Arg Glu Ser Leu  
 165 170 175

Thr	Glu	Ile	Asn	Arg	Ser	Phe	Lys	Glu	Tyr	Thr	Glu	Asn	Met	Cys	Thr	
			180					185					190			
Ile	Glu	Val	Glu	Leu	Glu	Asn	Leu	Leu	Gly	Glu	Phe	Ser	Ile	Lys	Met	
		195					200					205				
Lys	Gly	Leu	Ala	Gly	Phe	Ala	Arg	Leu	Cys	Pro	Gly	Asp	Gln	Tyr	Glu	
	210				215						220					
Ile	Phe	Met	Lys	Tyr	Gly	Arg	Gln	Arg	Trp	Lys	Leu	Lys	Gly	Lys	Ile	
225				230					235						240	
Glu	Val	Asn	Gly	Lys	Gln	Ser	Trp	Asp	Gly	Glu	Glu	Thr	Val	Phe	Leu	
			245					250						255		
Pro	Leu	Ile	Val	Gly	Phe	Ile	Ser	Ile	Lys	Val	Thr	Glu	Leu	Lys	Gly	
		260						265					270			
Leu	Ala	Thr	His	Ile	Leu	Val	Gly	Ser	Val	Thr	Cys	Glu	Thr	Lys	Glu	
	275						280				285					
Leu	Phe	Ala	Ala	Arg	Pro	Gln	Val	Val	Ala	Val	Asp	Ile	Asn	Asp	Leu	
	290					295					300					
Gly	Thr	Ile	Lys	Leu	Asn	Leu	Glu	Ile	Thr	Trp	Tyr	Pro	Phe	Asp	Met	
305					310					315					320	
Glu	Asp	Met	Thr	Ala	Ser	Ser	Gly	Ala	Gly	Asn	Lys	Ala	Ala	Ala	Leu	
				325					330					335		
Gln	Arg	Arg	Met	Ser	Met	Tyr	Ser	Gln	Gly	Thr	Pro	Glu	Thr	Pro	Thr	
			340					345					350			
Phe	Lys	Asp	His	Ser	Phe	Phe	Arg	Trp	Leu	His	Pro	Ser	Pro	Asp	Lys	
	355						360				365					
Pro	Arg	Arg	Leu	Ser	Val	Leu	Ser	Ala	Leu	Gln	Asp	Thr	Phe	Phe	Ala	
	370					375					380					
Lys	Leu	His	Arg	Ser	Arg	Ser	Phe	Ser	Asp	Leu	Pro	Ser	Leu	Arg	Pro	
385				390					395						400	
Ser	Pro	Lys	Ala	Val	Leu	Glu	Leu	Tyr	Ser	Asn	Leu	Pro	Asp	Asp	Ile	
			405					410						415		
Phe	Glu	Asn	Gly	Lys	Ala	Ala	Glu	Glu	Lys	Met	Pro	Leu	Ser	Leu	Ser	
			420				425						430			
Phe	Ser	Asp	Leu	Pro	Asn	Gly	Asp	Cys	Ala	Leu	Thr	Ser	His	Ser	Thr	
	435					440					445					
Gly	Ser	Pro	Ser	Asn	Ser	Thr	Asn	Pro	Glu	Ile	Thr	Ile	Thr	Pro	Ala	
	450					455					460					
Glu	Phe	Asn	Leu	Ser	Ser	Leu	Ala	Ser	Gln	Asn	Glu	Gly	Met	Asp	Asp	
465				470					475						480	
Thr	Ser	Ser	Ala	Ser	Ser	Arg	Asn	Ser	Leu	Gly	Glu	Gly	Gln	Glu	Pro	
			485					490						495		
Lys	Ser	His	Leu	Lys	Glu	Glu	Asp	Pro	Glu	Glu	Pro	Arg	Lys	Pro	Ala	
			500					505					510			
Ser	Ala	Pro	Ser	Glu	Ala	Cys	Arg	Arg	Gln	Ser	Ser	Gly	Ala	Gly	Ala	
	515					520						525				
Glu	His	Leu	Phe	Leu	Glu	Asn	Asp	Val	Ala	Glu	Ala	Leu	Leu	Gln	Glu	
	530					535					540					
Ser	Glu	Glu	Ala	Ser	Glu	Leu	Lys	Pro	Val	Glu	Leu	Asp	Thr	Ser	Glu	
545				550					555						560	
Gly	Asn	Ile	Thr	Lys	Gln	Leu	Val	Lys	Arg	Leu	Thr	Ser	Ala	Glu	Val	
			565					570						575		
Pro	Met	Ala	Thr	Asp	Arg	Leu	Leu	Ser	Glu	Gly	Ser	Val	Gly	Gly	Glu	
	580							585					590			
Ser	Glu	Gly	Cys	Arg	Ser	Phe	Leu	Asp	Gly	Ser	Leu	Glu	Asp	Ala	Phe	
	595					600					605					
Asn	Gly	Leu	Leu	Leu	Ala	Leu	Glu	Pro	His	Lys	Glu	Gln	Tyr	Lys	Glu	
	610					615					620					
Phe	Gln	Asp	Leu	Asn	Gln	Glu	Val	Met	Asn	Leu	Asp	Asp	Ile	Leu	Lys	

625		630		635		640
Cys Lys Pro Ala Val Ser Arg Ser Arg Ser Ser Ser Leu Ser Leu Thr						
	645		650		655	
Val Glu Ser Ala Leu Glu Ser Phe Asp Phe Leu Asn Thr Ser Asp Phe						
	660		665		670	
Asp Glu Glu Glu Asp Gly Asp Glu Val Cys Asn Val Gly Gly Gly Ala						
	675		680		685	
Asp Ser Val Phe Ser Asp Thr Glu Thr Glu Lys His Ser Tyr Arg Ser						
	690		695		700	
Val His Pro Glu Ala Arg Gly His Leu Ser Glu Ala Leu Thr Glu Asp						
705		710		715		720
Thr Gly Val Gly Thr Ser Val Ala Gly Ser Pro Leu Pro Leu Thr Thr						
	725		730		735	
Gly Asn Glu Ser Leu Asp Ile Thr Ile Val Arg His Leu Gln Tyr Cys						
	740		745		750	
Thr Gln Leu Val Gln Gln Ile Val Phe Ser Ser Lys Thr Pro Phe Val						
	755		760		765	
Ala Arg Ser Leu Leu Glu Lys Leu Ser Arg Gln Ile Gln Val Met Glu						
	770		775		780	
Lys Leu Ala Ala Val Ser Asp Glu Asn Ile Gly Asn Ile Ser Ser Val						
785		790		795		800
Val Glu Ala Ile Pro Glu Phe His Lys Lys Leu Ser Leu Leu Ser Phe						
	805		810		815	
Trp Thr Lys Cys Ser Pro Val Gly Val Tyr His Ser Pro Ala Asp						
	820		825		830	
Arg Val Met Lys Gln Leu Glu Ala Ser Phe Ala Arg Thr Val Asn Lys						
	835		840		845	
Glu Tyr Pro Gly Leu Ala Asp Pro Val Phe Arg Thr Leu Val Ser Gln						
	850		855		860	
Ile Leu Asp Gln Ala Glu Pro Leu Leu Ser Ser Ser Leu Ser Ser Glu						
865		870		875		880
Val Val Thr Val Phe Gln Tyr Tyr Ser Tyr Phe Thr Ser His Gly Val						
	885		890		895	
Ser Asp Leu Glu Ser Tyr Leu Ser Gln Leu Ala Arg Gln Val Ser Met						
	900		905		910	
Val Gln Thr Leu Gln Ser Leu Arg Asp Glu Lys Leu Leu Gln Thr Met						
	915		920		925	
Ser Asp Leu Ala Pro Ser Asn Leu Leu Ala Gln Gln Glu Val Leu Arg						
	930		935		940	
Thr Leu Ala Leu Leu Leu Thr Arg Glu Asp Asn Glu Val Ser Glu Ala						
945		950		955		960
Val Thr Leu Tyr Leu Ala Ala Ala Ser Lys Asn Gln His Phe Arg Glu						
	965		970		975	
Lys Ala Leu Leu Tyr Tyr Cys Glu Ala Leu Thr Lys Thr Asn Leu Gln						
	980		985		990	
Leu Gln Lys Ala Ala Cys Leu Ala Leu Lys Ile Leu Glu Ala Thr Glu						
	995		1000		1005	
Ser Ile Lys Met Leu Val Thr Leu Cys Gln Ser Asp Thr Glu Glu Ile						
	1010		1015		1020	
Arg Asn Val Ala Ser Glu Thr Leu Leu Ser Leu Gly Glu Asp Gly Arg						
1025		1030		1035		1040
Leu Ala Tyr Glu Gln Leu Asp Lys Phe Pro Arg Asp Cys Val Lys Val						
	1045		1050		1055	
Gly Gly Arg His Gly Thr Glu Val Ala Thr Ala Phe						
	1060		1065			

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<211> 591
<212> PRT
<213> Homo sapiens
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<400> 38

Met 1	Leu	Val	Gly	Ser 5	Gln	Ser	Phe	Ser	Pro 10	Gly	Gly	Pro	Asn	Gly 15	Ile
Ile	Arg	Ser	Gln 20	Ser	Phe	Ala	Gly	Phe 25	Ser	Gly	Leu	Gln	Glu 30	Arg	Arg
Ser	Arg	Cys 35	Asn	Ser	Phe	Ile	Glu 40	Asn	Ser	Ser	Ala	Leu	Lys 45	Lys	Pro
Gln	Ala 50	Lys	Leu	Lys	Lys	Met 55	His	Asn	Leu	Gly	His 60	Lys	Asn	Asn	Asn
Pro 65	Pro	Lys	Glu	Pro	Gln 70	Pro	Lys	Arg	Val	Glu 75	Glu	Val	Tyr	Arg	Ala
Leu	Lys	Asn	Gly	Leu 85	Asp	Glu	Tyr	Leu	Glu 90	Val	His	Gln	Thr	Glu 95	Leu
Asp	Lys	Leu	Thr 100	Ala	Gln	Leu	Lys	Asp 105	Met	Lys	Arg	Asn	Ser	Arg	Leu
Gly	Val	Leu 115	Tyr	Asp	Leu	Asp	Lys 120	Gln	Ile	Lys	Thr	Ile 125	Glu	Arg	Tyr
Met	Arg 130	Arg	Leu	Glu	Phe	His 135	Ile	Ser	Lys	Val	Asp 140	Glu	Leu	Tyr	Glu
Ala 145	Tyr	Cys	Ile	Gln	Arg 150	Arg	Leu	Gln	Asp	Gly 155	Ala	Ser	Lys	Met	Lys
Gln	Ala	Phe	Ala	Thr 165	Ser	Pro	Ala	Ser	Lys 170	Ala	Ala	Arg	Glu	Ser 175	Leu
Thr	Glu	Ile	Asn 180	Arg	Ser	Phe	Lys	Glu 185	Tyr	Thr	Glu	Asn	Met 190	Cys	Thr
Ile	Glu	Val 195	Glu	Leu	Glu	Asn	Leu 200	Gly	Glu	Phe	Ser 205	Ile	Lys	Met	
Lys	Gly 210	Leu	Ala	Gly	Phe	Ala 215	Arg	Leu	Cys	Pro	Gly 220	Asp	Gln	Tyr	Glu
Ile 225	Phe	Met	Lys	Tyr	Gly 230	Arg	Gln	Arg	Trp	Lys 235	Leu	Lys	Gly	Lys	Ile
Glu	Val	Asn	Gly	Lys 245	Gln	Ser	Trp	Asp	Gly 250	Glu	Glu	Thr	Val	Phe 255	Leu
Pro	Leu	Ile	Val 260	Gly	Phe	Ile	Ser	Ile 265	Lys	Val	Thr	Glu	Leu 270	Lys	Gly
Leu	Ala	Thr 275	His	Ile	Leu	Val	Gly 280	Ser	Val	Thr	Cys	Glu	Thr 285	Lys	Glu
Leu	Phe 290	Ala	Ala	Arg	Pro	Gln 295	Val	Val	Ala	Val	Asp 300	Ile	Asn	Asp	Leu
Gly 305	Thr	Ile	Lys	Leu	Asn 310	Leu	Glu	Ile	Thr	Trp 315	Tyr	Pro	Phe	Asp	Met
Glu	Asp	Met	Thr	Ala 325	Ser	Ser	Gly	Ala	Gly 330	Asn	Lys	Ala	Ala 335	Ala	Leu
Gln	Arg	Arg	Met 340	Ser	Met	Tyr	Ser	Gln 345	Gly	Thr	Pro	Glu	Thr 350	Pro	Thr
Phe	Lys	Asp 355	His	Ser	Phe	Phe	Ser 360	Asn	Leu	Pro	Asp	Asp 365	Ile	Phe	Glu
Asn	Gly 370	Lys	Ala	Ala	Glu	Glu	Lys 375	Met	Pro	Leu	Ser	Leu	Ser	Phe	Ser
Asp 385	Leu	Pro	Asn	Gly	Asp 390	Cys	Ala	Leu	Thr	Ser 395	His	Ser	Thr	Gly	Ser
Pro	Ser	Asn	Ser	Thr 405	Asn	Pro	Glu	Ile	Thr 410	Ile	Thr	Pro	Ala	Glu 415	Phe

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Asn Leu Ser Ser Leu Ala Ser Gln Asn Glu Gly Met Asp Asp Thr Ser
      420                      425                      430
Ser Ala Ser Ser Arg Asn Ser Leu Gly Glu Gly Gln Glu Pro Lys Ser
      435                      440                      445
His Leu Lys Glu Glu Asp Pro Glu Glu Pro Arg Lys Pro Ala Ser Ala
      450                      455                      460
Pro Ser Glu Ala Cys Arg Arg Gln Ser Ser Gly Ala Gly Ala Glu His
      465                      470                      475                      480
Leu Phe Leu Glu Asn Asp Val Ala Glu Ala Leu Leu Gln Glu Ser Glu
      485                      490                      495
Glu Ala Ser Glu Leu Lys Pro Val Glu Leu Asp Thr Ser Glu Gly Asn
      500                      505                      510
Ile Thr Lys Gln Leu Val Lys Arg Leu Thr Ser Ala Glu Val Pro Met
      515                      520                      525
Ala Thr Asp Arg Leu Leu Ser Glu Gly Ser Val Gly Gly Glu Ser Glu
      530                      535                      540
Gly Cys Arg Ser Phe Leu Asp Gly Ser Leu Glu Asp Ala Phe Asn Gly
      545                      550                      555                      560
Leu Leu Leu Ala Leu Glu Pro His Lys Glu Gln Tyr Lys Glu Phe Gln
      565                      570                      575
Asp Leu Asn Gln Glu Val Met Asn Leu Asp Asp Ile Leu Lys Lys
      580                      585                      590

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<210> 39  
 <211> 1048  
 <212> PRT  
 <213> Homo sapiens

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<400> 39
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Ile Arg Ser Gln Ser Phe Ala Gly Phe Ser Gly Leu Gln Glu Arg Arg
      20      25      30
Ser Arg Cys Asn Ser Phe Ile Glu Asn Ser Ser Ala Leu Lys Lys Pro
      35      40      45
Gln Ala Lys Leu Lys Lys Met His Asn Leu Gly His Lys Asn Asn Asn
      50      55      60
Pro Pro Lys Glu Pro Gln Pro Lys Arg Val Glu Glu Val Tyr Arg Ala
      65      70      75      80
Leu Lys Asn Gly Leu Asp Glu Tyr Leu Glu Val His Gln Thr Glu Leu
      85      90      95
Asp Lys Leu Thr Ala Gln Leu Lys Asp Met Lys Arg Asn Ser Arg Leu
      100     105     110
Gly Val Leu Tyr Asp Leu Asp Lys Gln Ile Lys Thr Ile Glu Arg Tyr
      115     120     125
Met Arg Arg Leu Glu Phe His Ile Ser Lys Val Asp Glu Leu Tyr Glu
      130     135     140
Ala Tyr Cys Ile Gln Arg Arg Leu Gln Asp Gly Ala Ser Lys Met Lys
      145     150     155     160
Gln Ala Phe Ala Thr Ser Pro Ala Ser Lys Ala Ala Arg Glu Ser Leu
      165     170     175
Thr Glu Ile Asn Arg Ser Phe Lys Glu Tyr Thr Glu Asn Met Cys Thr
      180     185     190
Ile Glu Val Glu Leu Glu Asn Leu Leu Gly Glu Phe Ser Ile Lys Met
      195     200     205
Lys Gly Leu Ala Gly Phe Ala Arg Leu Cys Pro Gly Asp Gln Tyr Glu
      210     215     220

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Ile	Phe	Met	Lys	Tyr	Gly	Arg	Gln	Arg	Trp	Lys	Leu	Lys	Gly	Lys	Ile
225					230					235					240
Glu	Val	Asn	Gly	Lys	Gln	Ser	Trp	Asp	Gly	Glu	Glu	Thr	Val	Phe	Leu
			245						250					255	
Pro	Leu	Ile	Val	Gly	Phe	Ile	Ser	Ile	Lys	Val	Thr	Glu	Leu	Lys	Gly
			260					265					270		
Leu	Ala	Thr	His	Ile	Leu	Val	Gly	Ser	Val	Thr	Cys	Glu	Thr	Lys	Glu
		275					280					285			
Leu	Phe	Ala	Ala	Arg	Pro	Gln	Val	Val	Ala	Val	Asp	Ile	Asn	Asp	Leu
290						295					300				
Gly	Thr	Ile	Lys	Leu	Asn	Leu	Glu	Ile	Thr	Trp	Tyr	Pro	Phe	Asp	Met
305					310					315					320
Glu	Asp	Met	Thr	Ala	Ser	Ser	Gly	Ala	Gly	Asn	Lys	Ala	Ala	Ala	Leu
				325					330					335	
Gln	Arg	Arg	Met	Ser	Met	Tyr	Ser	Gln	Gly	Thr	Pro	Glu	Thr	Pro	Thr
			340					345					350		
Phe	Lys	Asp	His	Ser	Phe	Phe	Arg	Trp	Leu	His	Pro	Ser	Pro	Asp	Lys
		355					360					365			
Pro	Arg	Arg	Leu	Ser	Val	Leu	Ser	Ala	Leu	Gln	Asp	Thr	Phe	Phe	Ala
370						375					380				
Lys	Leu	His	Arg	Ser	Arg	Ser	Phe	Ser	Asp	Leu	Pro	Ser	Leu	Arg	Pro
385					390					395					400
Ser	Pro	Lys	Ala	Val	Leu	Glu	Leu	Tyr	Ser	Asn	Leu	Pro	Asp	Asp	Ile
				405					410					415	
Phe	Glu	Asn	Gly	Lys	Ala	Ala	Glu	Glu	Lys	Met	Pro	Leu	Ser	Leu	Ser
			420					425					430		
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Lys	Ser	His	Leu	Lys	Glu	Glu	Asp	Pro	Glu	Glu	Pro	Arg	Lys	Pro	Ala
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Gly	Asn	Ile	Thr	Lys	Gln	Leu	Val	Lys	Arg	Leu	Thr	Ser	Ala	Glu	Val
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Pro	Met	Ala	Thr	Asp	Arg	Leu	Leu	Ser	Glu	Gly	Ser	Val	Gly	Gly	Glu
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Cys	Lys	Pro	Ala	Val	Ser	Arg	Ser	Arg	Ser	Ser	Ser	Leu	Ser	Leu	Thr
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Val	Glu	Ala	Ile	Pro	Glu	Phe	His	Lys	Lys	Leu	Ser	Leu	Leu	Ser	Phe
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Val	Val	Thr	Val	Phe	Gln	Tyr	Tyr	Ser	Tyr	Phe	Thr	Ser	His	Gly	Val
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Gln	Ala 50	Lys	Leu	Lys	Lys	Met 55	His	Asn	Leu	Gly	His 60	Lys	Asn	Asn	Asn
Pro 65	Pro	Lys	Glu	Pro	Gln 70	Pro	Lys	Arg	Val	Glu 75	Glu	Val	Tyr	Arg	Ala 80
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Asp	Lys	Leu	Thr 100	Ala	Gln	Leu	Lys	Asp 105	Met	Lys	Arg	Asn	Ser 110	Arg	Leu
Gly	Val	Leu 115	Tyr	Asp	Leu	Asp	Lys 120	Gln	Ile	Lys	Thr	Ile 125	Glu	Arg	Tyr
Met	Arg 130	Arg	Leu	Glu	Phe	His 135	Ile	Ser	Lys	Val	Asp 140	Glu	Leu	Tyr	Glu
Ala 145	Tyr	Cys	Ile	Gln	Arg 150	Arg	Leu	Gln	Asp	Gly 155	Ala	Ser	Lys	Met	Lys 160
Gln	Ala	Phe	Ala 165	Thr	Ser	Pro	Ala	Ser	Lys 170	Ala	Ala	Arg	Glu	Ser 175	Leu
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Ile	Glu	Val 195	Glu	Leu	Glu	Asn 200	Leu	Leu	Gly	Glu	Phe	Ser 205	Ile	Lys	Met
Lys	Gly 210	Leu	Ala	Gly	Phe	Ala 215	Arg	Leu	Cys	Pro	Gly 220	Asp	Gln	Tyr	Glu
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Leu	Ala	Thr 275	His	Ile	Leu	Val	Gly 280	Ser	Val	Thr	Cys	Glu 285	Thr	Lys	Glu
Leu	Phe 290	Ala	Ala	Arg	Pro	Gln 295	Val	Val	Ala	Val	Asp 300	Ile	Asn	Asp	Leu
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Glu	Asp	Met	Thr 325	Ala	Ser	Ser	Gly	Ala	Gly 330	Asn	Lys	Ala	Ala 335	Ala	Leu
Gln	Arg	Arg	Met 340	Ser	Met	Tyr	Ser	Gln 345	Gly	Thr	Pro	Glu	Thr 350	Pro	Thr
Phe	Lys	Asp 355	His	Ser	Phe	Phe	Ser 360	Asn	Leu	Pro	Asp	Asp 365	Ile	Phe	Glu
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His	Leu 450	Lys	Glu	Glu	Asp	Pro 455	Glu	Glu	Pro	Arg	Lys 460	Pro	Ala	Ser	Ala
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